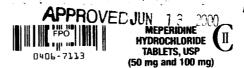
CENTER FOR DRUG EVALUATION AND RESEARCH

APPLICATION NUMBER: 40352

DRAFT FINAL PRINTED LABELING



Rx only

SPECIMEN DESCRIPTION

Meperidine hydrochloride, a narcotic analgesic, is ethyl 1-methyl-4phenylisonipecotate hydrochloride, a white crystalline substance with a metting point of 186° to 188° C. It is readily soluble in water and has a neutral reaction and a slightly bitter taste. The solution is not decomposed by a short perod of boiling. It has the following structural formula:

C16H21NO2 • HCI

M.W.=283.80

Each MEPERIDINE HYDROCHLORIDE, USP 50 mg tablet for oral administration contains:

Each MEPERIDINE HYDROCHLORIDE, USP 100 mg tablet for oral administration contains:

In addition, each MEPERIDINE HYDROCHLORIDE, USP tablet contains the following inactive ingredients: Dibasic Calcium Phosphate, Magnesium Stearate, Microcrystalline Cellulose, Povidone, Pregelatinized Starch, Stearic Acid, and Talc.

CLINICAL PHARMACOLOGY

Meperidine hydrochloride is a narcotic analgesic with multiple actions qualitatively similar to those of morphine; the most prominent of these involve the central nervous system and organs composed of smooth muscle. The principal actions of therapeutic value are analgesia and sedation.

There is some evidence which suggests that meperidine may produce less smooth muscle spasm. constipation, and depression of the cough reflex than equianalgesic doses of morphine. Meperidine, in 60 mg to 80 mg parenteral doses. is approximately equivalent in analgesic effect to 10 mg of morphine. The onset of action is slightly more rapid than with morphine, and the duration of action is slightly shorter. Meperidine is significantly less effective by the oral than by the parenteral route, but the exact ratio of oral to parenteral effectiveness is unknown.

INDICATIONS AND USAGE

For the relief of moderate to severe pain.

CONTRAINDICATIONS

Hypersensitivity to meperidine

Meperidine is contraindicated in patients who are receiving monoamine oxidase (MAO) inhibitors or those who have recently received such agents. Therapeutic doses of imperidine have occasionally precipitated unpredictable, severe, and occasionally fatal reactions in patients who have received such agents within 14 days. The mechanism of these reactions is unclear but may be related to a pre-existing hyperphenylalaninemia. Some have been characterized by coma, severe respiratory depression, cyanosis, and hypotension, and have resembled the syndrome of acute narcotic overdose. In other reactions the predominant manifestations have been hyperexicitability, convulsions, tachycardia, hyperpyrexia, and hypertension. Although it is not known that other narcotics are free of the risk of such reactions, virtually all of the reported reactions have occurred with meperione. If a narcotic is needed in such patients, a sensitivity test should be preformed in which repeated, small, incremental doses of morphine are administered over the course of several hours while the patient's condition and vital signs are under careful observation. (Intravenous hydrocorisone or prediscions have been used to treat severe reactions, with the addition of intravenous chlorpromazme in those cases exhibiting hypertension and hyperpyres.

Solutions of meperidine hydrochloride and barbiturates are chemically incompatible.

WARNINGS

Orug Dependence. Meperidine can produce drug dependence of the morphine type and therefore has the potential for being abused. Psychic dependence, aphysical dependence, and tolerance may develop upon repeated administration of meperidine, and if should be prescribed and administered with the same degree of caution appropriate to the use of morphine. Like other narcolics meperidine is subject to the provisions of the Federal narcolic laws.

Interaction with Other Central Nervous System Depressants MEPERIDINE SHOULD BE USED WITH GREAT CAUTION AND IN REDUCED DOSAGE IN PATIENTS WHO ARE CONCURRENTLY RECEIVING OTHER NARCOTIC ANALGESICS. GENERAL ANESTHETICS. PHENOTHIAZINES. OTHER TRANDUILIZERS (SEE DOSAGE AND ADMINISTRATION), SEDATIVE-HYPNOTICS (INCLUDING BARBITURATES), TRICYCLIC ANTIDEPRESSANTS AND OTHER CNS DEPRESSANTS (INCLUDING ALCOHOL). RESPIRATORY DEPRESSION. HYPOTENSION, AND PROFOUND SEDATION OR COMA MAY RESULT.

Head Injury and Increased Intracranial Pressure. The respiratory depressant effects of meperidine and its capacity to elevate ceretrospinal fluid pressure may be markedly exaggerated in the presence of heir, injury, other intracranial lesions, or a preexisting increase in intracranial pressure. Furthermore, narcotics produce adverse reactions which may obscure the clinical course of patients with head injuries. In such patients, meperidine must be used with extreme caution and only if its use is deemed essential.

Asthma and Other Respiratory Conditions. Meperidine should be used with extreme caution in patients having an acute asthmatic attack, patients with chronic obstructive pulmonary disease or cor purmonale, patients having a substantially decreased respiratory reserve, and patients with preexisting respiratory depression, hydoxia, or hydercapila. In such patients, even usual theraper.

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Hypotensive Effect. The administration of meperidine may result in severe hypotension in the postoperative patient or any individual whose ability to maintain blood pressure has been compromised by a depleted blood volume or the administration of drugs such as phenothiazines or certain anesthetics.

Usage in Ambulatory Patients Meperidine may impair the mental and/or physical abilities required for the performance of potentially hazardous tasks such as driving a car or operating machinery. The patient should be cautioned according

Mependine, like other narcotics, may produce orthostatic hypotension in ambulatory patients $% \left(1\right) =\left(1\right) \left(1\right) \left($

Usage in Pregnancy and Lactation. Meperidine should not be used in pregnant women prior to the labor period, unless in the judgement of the physician the potential benefits outweigh the possible hazards, because safe use in pregnancy prior to labor has not been established relative to possible adverse effects on fetal development.

Meperidine appears in the milk of nursing mothers receiving the drug.

PRECAUTIONS

Supraventricular Tachycardias. Meperidine should be used with caution in patients with atrial flutter and other supraventricular tachycardias because of a possible vagolytic action which may produce a significant increase in the ven-

Convulsions Meperidine may aggravate preexisting convulsions in patients with convulsive disorders. If dosage is escalated substantially above recommended levels because of tolerance development, convulsions may occur in individuals without a history of convulsive disorders.

Acute Abdominal Conditions. The administration of meperidine or other nar-cotics may obscure the diagnosis or clinical course in patients with acute abdominal conditions.

Special Risk Patients Meperidine should be given with caution and the initial dose should be reduced in certain patients such as the elderly or debilitated, and those with severe impairment of hepatic or renal function, hypothyroidism. Addison's disease, and prostatic hypertrophy or urethral stricture

ADVERSE REACTIONS

The major hazards of meperidine, as with other narcotic analgesics, are respiratory depression and, to a lesser degree, circulatory depression; respiratory arrest, shock, and cardiac arrest have occurred.

The most frequently observed adverse reactions include lightheadedness, dizziness, sedation, nauseau, vomiting, and sweating. These effects seem to be more prominent in ambulatory patients and in those who are not experiencing severe pain. In such individuals, lower doses are advisable. Some adverse reactions in ambulatory patients may be alleviated if the patient lies down.

Other adverse reactions include

Nervous System. Euphoria, dysphoria, weakness, headache, agitation, tremor, uncoordinated muscle movement, severe convulsions, transient halfucinations and disprientation, visual disturbances.

Gastrointestinal. Dry mouth, constipation, biliary tract spasm.

Cardiovascular. Flushing of the face, tachycardia, bradycardia, palpitation, hypotension (see WARNINGS), syncope

Genitourinary. Urinary retention

Allergic. Pruritus, urticaria, other skin rashes.

Other. Antidiuretic effect.

OVERDOSAGE

Symptoms. Serious overdosage with meperidine is characterized by respiratory depression to decrease in respiratory rate and/or tidal volume. Cheyne-Stokes respiration, cyanosis), extreme somnolence progressing to stupor or comaskeletal muscle flaccidity, cold and claimny skin, and sometimes bradycarda and hypotension. In severe overdosage, apnea, circulatory collapse, cardiac arrest, and death may occur. arrest, and death may occur

Treatment. Primary attention should be given to the reestablishment of adequate respiratory exchange through provision of a patent airway and institution of assisted or controlled ventilation. The narcotic antagonist naloxone hydrochloride, is a specific antidote against repuratory depression which may result from overdosage or unusual sensitivity to narcotics, including meperidine. Therefore, an appropriate dose of this antagonist should be administered, preferably by the intravenous route, simultaneously with efforts at respiratory resuscitation.

An antagonist should not be administered in the absence of clinically significant respiratory or cardiovascular depression.

Oxygen, intravenous fluids, vasopressors, and other supportive measures should be employed as indicated.

In cases of overdosage with Meperidine Hydrochloride Tablets, USP, the stomach should be evacuated by emesis or gastric lavage.

NOTE: In an individual physically dependent on narcotics, the administration of NOTE: In an individual physically dependent on narcotics, the administration of the usual dose of a narcotic antagonist will precipitate an acute withdrawal syndrome. The severity of this syndrome will depend on the degree of physical dependence and the dose of the antagonist administered. The use of narcotic antagonist in such individuals should be avoided if possible. If a narcotic antagonist must be used to treat serious respiratory depression in the physically dependent patient, the antagonist should be administered with extreme care and only one-fifth to one-tenth the usual initial dose administered.

DOSAGE AND ADMINISTRATION

For Relief of Pain

For Relief of Pain Dosage should be adjusted according to the severity of the pain and the response of the patient. Meperidine is less effective orally than with parenteral administration. The dose of Meperidine Hydrochlonde Tablets. USP should be proportionally reduced (usually by 25 to 50 percent) when administered con-comitantly with phenothiazines and many other tranquilizers since they potenti-ate the action of meperidine.

Adults. The usual dosage is 50 mg to 150 mg orally, every 3 or 4 hours as nec-

Children. The usual dosage is 0.5 mg/lb to 0.8 mg/lb orally, up to the adult dose. every 3 or 4 hours as necessary.

HOW SUPPLIED

Each Meperidine Hydrochloride Tablet, USP (50 mg) is available as a round. white to off-white scored tablet debossed with a semi-circle arc "7113" on one side and a boxed "M" on the other side.

Bottles of 100.....NDC 0406-7113-01

Each Meperidine Hydrochloride Tablet, USP (100 mg) is available as a round, white to off-white tablet debossed with a semi-circle arc "7115" on one side and a boxed "M" on the other side.

Bottles of 100....NDC 0406-7115-01

Store at controlled room temperature 15° to 30° C (59° to 86° F).

Dispense in a tight, light-resistant container as defined in the USP.

Mallinckrodt Inc





Meperidine Hydrochloride Tablets, USP (100 mg) 100 count Bottle Label



Meperidine Hydrochloride Tablets, USP (100 mg) 100 count Bottle Label

NDC 0406-7115-01 MEPERIDINE
HYDROCHLORIDE
TABLETS, USP
100 TTG

USUAL DOSAGE: See package insert. STORAGE: Store at controlled room temperature 15° to 30°C (59° to 86°F).

Margo

Meperidine Hydrochloride Tablets, USP (50 mg) 100 count Bottle Label



Copies